

## CLAIMS

### What is claimed is:

- 1        1.        A system comprising:  
2                A processing unit;  
3                A memory device;  
4                A network interconnection;  
5                A first unit to process an inquiry for data from a peer node, transcode the data  
6                        before transmitting the data to the peer node, wherein the transcoding  
7                        includes converting the data into a format that can be processed by the  
8                        peer node, and transmitting the data to the peer node in a transport  
9                        specification as requested by the peer node.
- 1        2.        The system of claim 1, wherein the transport specification is specified by an  
2                application at the peer node.
- 1        3.        The system of claim 1, wherein the inquiry includes a user-specified query  
2                generated at the peer node.
- 1        4.        The system of claim 3, wherein the user-specified query includes a reference  
2                to a content of the requested data, and the system includes a content specific query  
3                handler to locate the requested data.





1        19.     The method of claim 14, wherein the data is transcoded into a format  
2 requested by the peer service layer of the second peer node.

1        20.     The method of claim 14, wherein the second node includes a programmatic  
2 access to the peer-to-peer service layer.

1        21.     The method of claim 14, wherein the data includes multimedia data.

1        22.     The method of claim 14, wherein the second node is a wireless device and an  
2 application support handler at the first node adjust delivery of the data to a mobile  
3 location of the second node.

1        23.     The method of claim 14, wherein a peer service layer is included at the second  
2 node to provide system-level service below an operating system of the second node.

1        24.     The method of claim 14, further including the first node receiving the data  
2 from a third node.

1        25.     The method of claim 24, wherein the third node transcodes the data prior to  
2 transmitting the data to the first node.

1        26.     The method of claim 14, wherein a peer service layer at the second peer node  
2 specifies the transport specification.



1 32. The article of claim 31, wherein the user-specified query includes a reference to  
2 a content of the requested data, and the first peer node includes a content specific query  
3 handler to locate the requested data.

1 33. The article of claim 29, wherein the second and first peer nodes include tables  
2 mapping user-defined names or metadata references to Globally Unique Identifiers  
3 identifying data stored within a network of peer-to-peer nodes.

1 34. The article of claim 29, wherein the application at the second peer node  
2 specifies the transport specification to a peer service layer at the second peer node.

1 35. The article of claim 29, wherein the data is transcoded into a format requested  
2 by the peer service layer of the second peer node.

1 36. The article of claim 29, wherein the second node includes programmatic access  
2 to the peer-to-peer service layer.

1 37. The article of claim 29, wherein the data includes multimedia data.

1 38. The article of claim 29, wherein the second node is a wireless device and an  
2 application support handler at the first node adjust delivery of the data to a mobile  
3 location of the second node.

1 39. The article of claim 29, wherein the instructions further cause the first node to  
2 receive the data from a third node, prior to transmitting the data to a second node.

1 40. The article of claim 39, wherein a peer service layer at the second peer node  
2 specifies the transport specification.

1 41. The article of claim 41, wherein the data is transcoded in response to a status of  
2 a network connection between the first peer node and the second peer node.